Date: User: Monday, 02/06/2008 1:54:39 PM

Julie Lecocq

Process Sheet

Customer

: CU-DAR001 Dart Helicopters Services

Job Number

: 39647

Estimate Number P.O. Number

: 10926

This Issue : 02/06/2008

: NC Prsht Rev.

First Issue

: //

: 30135

: SMALL /MED FAB

Re-format EC

Type

Previous Run Written By

Checked & Approved By Comment

: Est.

DC

B 00.01.12

S.O. No. :

Drawing Name

Part Number

Drawing Number

Project Number

Drawing Revision

Material **Due Date**

: 03/06/2008

: TUBE ASSEMBLY

-UNDER REVIEW

: D2003111

: N/A

: B

Qty: 5 Um:

FF 08-06-04

00-06-04

SEE STEP 9,0

Additional Product

Job Number:



Seq. #:

Machine Or Operation:

Description: DOCUMENT CONTROL

1.0

Comment: DOCUMENT CONTROL

Photocopy bluefile & type labels per PPP D2003-111

2.0

3.0

6061-T6 Tube .500 x.035W

Comment: Qty.:

0.4047 f(s)/Unit Total:

2.0234 f(s)

Material:1/2"Æ x 0.035" wall 6061-T6 tubing

SMALL & MEDIUM FAB RESOURCE 1



Comment: SMALL & MEDIUM FAB RESOURCE 1

Form tube as per template D2003111

4.0 QC5 INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

M26506 5.0

Firesleeve-crkl .375IDia

Comment: Qty.:

0.4156 f(s)/Unit Total:

2.0780 f(s)

Material: M2650-6 Heat sleeve

Batch: 107746

FF 08-06-05

Page 1

Form: rprocess

W/O:		WORK ORDER CHANGES													
DATE	STEP	7	PROCEDURE CHANGE	÷	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector						
		-	à	*#/											
			-		-										

Part No:	PAR #:	Fault Category:	N	NCR: Yes No	DQA:	Date: _	
				QA: N/C C	losed:	Date:	140

NCR:		WORK ORDER NON-CONFORMANCE (NCR)													
		Description of NC		Corrective Action Section	В	Verification	Approval	Approval							
DATE	STEP	Section A	Initial Chief Eng			Section C	Approval Chief Eng	QC Inspector							
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161		÷													

Monday, 02/06/2008 1:54:40 PM Date: User: י Julie Lecoca **Process Sheet** Customer: CU-DAR001 Dart Helicopters Services Drawing Name: TUBE ASSEMBLY Job Number: 39647 Part Number: D2003111 Job Number: Seq. #: Machine Or Operation: Description: MS208198D 6.0 Sleeve Total: Comment: Qtv.: 2.0000 Each(s)/Unit 10.0000 Each(s) Pick: **Qty Part Number** Description 17/01840 FF 08-06-05 2 MS20819-8D Sleeve 7.0 AN8188D Nut Comment: Qty.: 2.0000 Each(s)/Unit Total: 10.0000 Each(s) Pick: **Qty Part Number** Description A ... 2 AN818-8D Nut FF 00-06-11 D2182 8.0 Heat Shrink 0.3750 f(s)/Unit Total: Comment: Qty.: 1.8750 f(s) Pick: **Qty Part Number** Description Batch FF 08-06-05 1 D2182-045 Heat shrink SMALL FAB 1 Comment: SMALL & MEDIUM FAB RESOURCE 1 CUT LENGTH OF TUBINA CONFIRM Cut as per template D2003-111 (4.625" long) w/evG. Cut: 4.75" long as per Dwg D2003 Assemble as per Dwg D2003 5 08-06-11 10.0 QC5 INSPECT WORK TO CURRENT STEP Comment: INSPECT WORK TO CURRENT STEP PACKAGING 1 11.0 PACKAGING RESOURCE #1 Comment: PACKAGING RESOURCE #1, Identify and Stock Location: Page 2

Form: rprocess

W/O:		WORK ORDER CHANGES														
DATE	STEP	PROCEDURE CHANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector								
		•														
			<u>.</u>													

Part No:	PAR #:	Fault Category:	NCR: Yes No	DQA:	Date:	
			QA: N/C	losed:	Date:	

NCR:		WORK ORDER NON-CONFORMANCE (NCR)											
		Description of NC		Corrective Action Section E	3	Verification	Approval	Approval					
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector					
1		***************************************		-									
				ii.									
				4									

Date:

Monday, 02/06/2008 1:54:40 PM

User:

Julie Lecocq

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: TUBE ASSEMBLY

Job Number: 39647

Part Number: D2003111

Job Number:



Seq. #:

Machine Or Operation:

Description:

12.0

QC21



FINAL INSPECTION/W/O RELEASE



MF 08-06-12

Comment: FINAL INSPECTION/W/O RELEASE

Job Completion



W/O:		WORK ORDER CH	IANGES
DATE	STEP	PROCEDURE CHANGE	By Date Qty Approval Chief Eng / Prod Mgr QC Inspector
	-		

Part No:	PAR #:	Fault Category:	NCR: Yes No	DQA:	Date:
			QA: N/C	Closed:	Date:

	Description of NC		Corrective Action Section B	Varification	Approval	Anneousl							
STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	Approval QC Inspector						
	STEP	STED Description of NC	STEP Description of NC Section A Initial Chief Eng	STEP Description of NC Section A Initial Chief Eng	STEP Description of NC Section A Chief Eng Chi	STEP Section A Initial Chief Eng Chief Eng Sign & Date Section C	STEP Description of NC Section A Chief Eng Chi						





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CHEC	KEP	APPROVED	DRAWING NO. REV. B
1	10	47	D2003 SHEET 1 OF 2
DATE			TITLE SCALE
99.0	6.08		206 CABIN HEATER TUBE ASSEMBLIES NTS
A		90.04.09	NEW ISSUE
В		99.06.08	UPDATE PER TEMPLATES; ADD P/N'S; 0.025 TUBING NOW 0.035 (TSR1049)

UNDER REVIEW 06.08.2× CB

13 06.06.0L

									, ,	when mind		
		HEATSLEEVE LENGTH	CUT LENGTH OF TUBE ²	MS20819-8J SLEEVE	AN818-8JNUT	MS20819-8D SLEEVE	AN818-8D NUT	MS20819-6D SLEEVE	AN818-6D NUT	·		
P/N	TEMPLATE	HEA	OF.	MS2	AN8	MS2	AN8	MS2	ANS	DESC.	MATERIAL 4/8/7	VENDOR OR SPEC
D2003-001	T2003-001	5.2	6.00					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-003	T2003-003	7.3	8.12					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-005	T2003-005	9.8	10.62	_				2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-007	T2003-007	20.0	19.63					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-009	T2003-009	12.38	12.44					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-011	T2003-011	33.31	32.38					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-013	T2003-013	12.7	13.54	· · · · ·				2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-015	T2003-015	17.2	18.00					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-017	T2003-017	17.0	16.25					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-019	T2003-019	9.8	10.62			2	2			TUBE ASS'Y	6061-T6 0,500 OD x 0,035 W	WW-T-700/6
D2003-021	T2003-021	N/A	2.25			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-023	T2003-023	4.5	5.33			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-025	T2003-025	9.8	10.60			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-027	T2003-027	7.25	7.38			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-029	T2003-029	17.2	18.00			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-031	T2003-031	14.6	15,38	2	2					TUBE ASS'Y	CRES 0.500 OD x 0,035 W	AISI 304
D2003-033	T2003-033	29.75	29.62	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-035	T2003-035	24.7	27.00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-037	T2003-037	24.81	23.38	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-039	T2003-039	34.0	34.00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-041	T2003-041	6.0	5.88	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-043	T2003-043	11.7	10.75	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-045	T2003-045	3.50	2.44	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-047	T2003-047	5.56	5.56	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-049	T2003-049	33.2	34.00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-077	T2003-077	N/A	6.25					1	1	JET	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-101	T2003-101	13.25	13.13					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-103	T2003-103	12.38	12.00					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-105	T2003-105	10.75	10.60					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-107	T2003-107	12.75	12.25					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-109	T2003-109	8.25	8.125			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-600/6
D2003-111	T2003-111	4.75	4.625	5 6	8.06	042	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-600/6
D2003-116	T2003-116	4.0		77						HEATSLEEVE	M2650-20 CRINKLE-SOFT	STRATOFLEX
D2003-120	T2003-120	4.0								HEATSLEEVE	M2650-16 CRINKLE-SOFT	STRATOFLEX
D2003-14	T2003-14	4.0								HEATSLEEVE	M2650-14 CRINKLE-SOFT	STRATOFLEX
D2003-16	T2003-16	4.0		-						HEATSLEEVE	M2650-16 CRINKLE-SOFT	STRATOFLEX
D2003-205	T2003-205	9.75	9.60					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 Wg	10/WW-12/00/6
D2003-207	T2003-207	3.75	3.75					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
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UNCONTROLLED COPY SUBJECT TO AMENDMENT

WITHOUT NOTICE

W/O:		WORK ORDER CHANGES													
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector								
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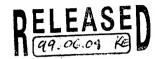
Part No:	PAR #:	_ Fault Category:	NCR: Yes No	DQA:	Date:
			QA: N/C C	losed:	Date:

NCR:			WORK ORD	ER NON-CONFORMANC	E (NCR)			
		Description of NC		Verification	A	A		
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector
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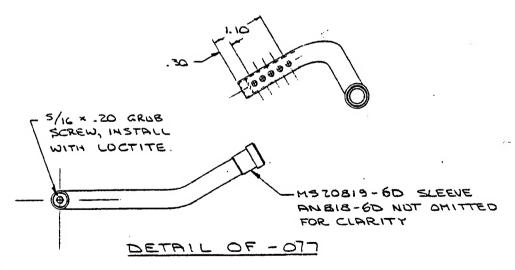
DESIGN	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED	APPROVED	DRAWING NO. RI	EV. B
46	14	D2003 SHEET 2	OF 2
DATE		TITLE	CALE
99.06.08		206 CABIN HEATER TUBE ASSEMBLIES	NTS



UNDER REVIEW

Notes:

- (1) USE STRATOFLEX M2650-6 CRINKLE-SOFT HEATSLEEVE.
- (2) TUBING ASSEMBLIES TO BE CUT AND BENT IN ACCORDANCE WITH TEMPLATES.
- (3) TUBES TO BE FLARED 30° TO MATE WITH FITTINGS MADE TO MS33514.
- (4) ENSURE SEAMLESS TUBING IS USED.
- (5) INSTALL HEATSLEEVE OVER ALL TUBES WITH A DESIGNATED LENGTH OF HEATSLEEVE PER THE PARTS LIST.
- (6) 5052 (WW-T-700/4) TUBING MAY BE SUBSTITUTED WHEN 6061 TUBING IS NOT AVAILABLE.
- (7) 0.049 WALL THICKNESS CRES TUBING MAY BE SUBSTITUTED WHEN 0.035 IS NOT AVAILABLE.
- (8) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.



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SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER

W/O:		WORK ORDER CHANGES									
DATE	STEP		PROCEDU	RE CHANGE			Date	Qty Approval Chief Eng / Prod Mgr QC Insp			
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Part No:	PAR #:	Fault Category:	NCR: Yes	No	DQA:	Date: _	
			QA: N	I/C C	losed:	Date: _	

NCR:		\	NORK ORE	DÈR NON-CONFORMAN	CE (NCR)								
		Description of NC Section A		Corrective Action Section B			A	A					
DATE	STEP		Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector					
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